



PATENT

Case Docket No. PALL.087C1

Date: November 19, 2003

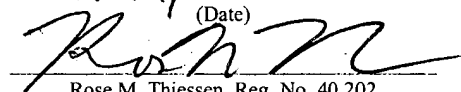
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) : Schindler, et al.  
Appl. No. : 10/666,893  
Filed : 17-Sep-2003  
For : SULFONATED ARYL  
SULFONATE MATRICES  
AND METHODS OF  
PRODUCTION  
Examiner : Unassigned  
Group Art Unit : Unknown

I hereby certify that this correspondence and all marked attachments are being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on

Nov 19, 2003

(Date)

  
Rose M. Thiessen, Reg. No. 40,202

TRANSMITTAL LETTER

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

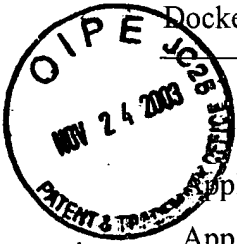
Dear Sir:

Enclosed for filing in the above-identified application are:

- (X) An Information Disclosure Statement.
- (X) A PTO Form 1449 with forty-eight (48) references.
- (X) The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Account No. 11-1410.
- (X) Return prepaid postcard.



Rose M. Thiessen  
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**INFORMATION DISCLOSURE STATEMENT**

Applicant : Schindler, et al.  
App. No. : 10/666,893  
Filed : 17-Sep-2003  
For : SULFONATED ARYL SULFONATE  
MATRICES AND METHODS OF  
PRODUCTION  
Examiner : Unassigned  
Group Art Unit : Unknown

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Enclosed is form PTO-1449 listing 48 references that are of record in U.S. patent application No. 09/563,143, filed May 2, 2000, which is the parent of this continuation application, and is relied upon for an earlier filing date under 35 U.S.C. § 120. Copies of the references are not submitted pursuant to 37 C.F.R. § 1.98(d).

This Information Disclosure Statement is being filed before the receipt of a first Office Action on the merits, and presumably no fee is required in accordance with 37 C.F.R. § 1.97(b)(3). If a first Office Action on the merits was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 C.F.R. § 1.17(p) to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: Nov 19, 2003

By: 

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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
PALL.087C1APPLICATION NO.  
10/666,893INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT

(USE SEVERAL SHEETS IF NECESSARY)

APPLICANT  
Schindler, et al.FILING DATE  
September 17, 2003GROUP  
Unknown

## U.S. PATENT DOCUMENTS

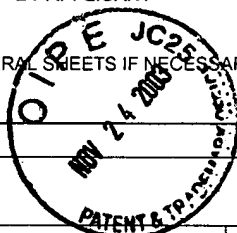
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	1	3,709,841	01/09/73	Quentin			
	2	4,207,182	06/10/80	Marze			
	3	4,268,650	05/19/81	Rose			
	4	4,818,387	04/89	Ikeda et al.			
	5	5,401,410	03/28/95	Bell et al.			
	6	5,879,554	03/09/99	Loffelmann et al.			
	7	3,769,332	10/30/73	Nagayama et al.			
	8	3,855,122	12/17/74	Bourganel			
	9	3,869,429	03/04/75	Blades			
	10	4,026,977	05/31/77	Bourganel			
	11	4,054,707	10/18/77	Quentin			
	12	4,207,182	06/10/80	Marzo			
	13	4,268,650	05/19/81	Rose			
	14	4,273,903	06/16/81	Rose			
	15	4,419,486	12/06/83	Rose			
	16	4,634,530	01/06/87	Kuder et al.			
	17	4,714,725	12/22/87	Hendy et al.			
	18	4,818,387	04/04/89	Ikeda et al.			
	19	4,866,099	09/12/89	Hendy			
	20	4,920,193	04/24/90	Hann et al.			
	21	4,922,485	05/01/90	Quinquis et al.			
	22	4,939,180	07/03/90	Hendy			
	23	4,971,695	11/20/90	Kawakami et al.			
	24	4,941,893	07/17/90	Hsieh et al.			
	25	4,992,485	02/12/91	Koo et al.			
	26	5,008,352	04/16/91	Hendy			
	27	5,013,765	05/07/91	Sluma et al.			
	28	5,028,337	07/02/91	Linder et al.			

EXAMINER

DATE CONSIDERED

\*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. PALL.087C1	APPLICATION NO. 10/666,893
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT Schindler, et al.	
		FILING DATE September 17, 2003	GROUP Unknown



## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	29	5,030,672	07/09/91	Hann et al.			
	30	5,013,765	05/07/91	Sluma et al.			
	31	5,071,448	12/10/91	Bikson et al.			
	32	5,112,892	05/12/92	Cardew et al.			
	33	5,118,766	06/02/92	Hendy et al.			
	34	5,246,582	09/21/93	Sluma et al.			
	35	5,693,740	12/00/97	Colquhoun et al.			
	36	5,879,554	03/09/99	Loffelmann et al.			
	37	5,997,741	12/07/99	Shimoda et al.			

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	38	DE 3814759 A1	11/09/89	Germany				
	39	DE 3814760 A1	11/09/89	Germany				
	40	EP 0 145 305 A2	06/85	Europe				
	41	EP 0 165 007 B1	12/18/85	Europe				
	42	EP 0 165 077 A2	12/18/85	Europe				
	43	DE 3321860 A1	12/20/84	Germany				

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
	44	PCT International Search Report; PCT/US 01/40640
	45	Abstract; Derwent Publications Ltd., London, GB; AN 1990-294967; XP002181229 & JP 02 208322 A ((KURK) KURITA WATER IND. LTD.), 17 August 1990
	46	Maku (Membrane), 1992, Vo. 17, No. 2, Page 85-90, Fig. 7, Tbl. 2, Ref. 4;
	47	Maku (Membrane), 1992, Vol. 17, No. 2, Page 78-84, Fig. 6, Tbl. 3, Ref. 3
	48	Maku (Membrane), 1992, Vol. 17, No. 3, Page 179-192, Fig. 25, Tbl. 5, Ref. 9

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EXAMINER	DATE CONSIDERED
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	